# PHYSICS SESSIONAL

Course No.: Phy 114

Department of CSE (LEVEL-1, TERM-1)

**1-$E_2$** Determination of the resistance of a galvanometer by half deflection method

**2-$E_3$** Verification of Biot-Savart law and Tangent law

**3-$M_1$** Determination of the threshold frequency for the material of a photo-cathode and hence find the value of the Planck's constant

**4-$VLM_3$** Determination of lattice constant of NaCl crystal using an X-ray diffraction simulator

**5-$E_5$** Determination of the temperature coefficient of the resistance of the material of a wire

**6-$E_6$** Determination of dielectric constant of materials using a parallel plate capacitor

**7-$M_4$** Verification of Heisenberg's uncertainty principle using single slit diffraction pattern

**8-$VLE_1$** Verification of the Coulomb's law of electrostatics

**9-$VLE_3$** To plot the I-V characteristic curves for an ohmic conductor, a thermistor and a diode

**10-$H_5$** Calibration of a given thermocouple

**11-$H_6$** Determination of the melting point of a solid using the calibration curve obtained in experiment $H_5$

**12-$E_7$** To determine a high resistance by the method of deflection

**13-$E_8$** To determine the value of low resistance by the method of fall of potential

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